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AMENDMENTS TO THE CLAIMS

This listing of Claims will replace all prior versions, and listings, of Claims in the Application:

Listing of Claims:

1. (Currently Amended) A tachometer device with ~~the variation of the~~ a projection light source ~~changing the color of a generated light~~ according to the ~~a rotational~~ ~~rotation~~ speed of an engine, said tachometer device wherein it could ~~set up the critical standard rotating speed value to provide optimum shift switch time as well as record the fastest speed condition happened during racing at least comprising:~~

~~A meter body which covers the all components;~~

a tachometer portion, including:

~~a microprocessor processing an instant rotational speed of the engine which is used to calculate all the signals of input and output and achieve to control the function of each parameter; a functional switch selection operation device wherein the parameter is to be settled up outside and each reference data is recorded in the memory device; and~~

~~a memory device which records the settled parameter containing at least one predetermined value of or the input signal of the engine rotating rotational speed to provide optimum as a reference data indicative of optimal timing for gear shifting, said memory device further containing data reflecting correspondence between a rotational speed segment and a respective color; and cylinder changeover switch which could be used to select the cylinder type; and~~

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~~which characteristic is to add~~ a light source device coupled to said tachometer portion for generating light of a color corresponding to an instant rotational speed of the engine on the circuit device inside the meter body, said light source device comprising comprises:

A a switch device outputting which outputs a switch signal corresponding to said reference data recorded in said memory device or a setting signal to the electric control loop;

~~An an~~ an electric-control loop coupled to said switch device and receiving therefrom said switch signal controlling said electric-control loop to change from one color of the generated light to another, said electric-control loop further being coupled to said tachometer portion to receive therefrom a control signal indicative of a specific color of light to be generated in response to said instant rotational speed processed by said microprocessor which receives the control signal input by the microprocessor in the circuit device of the rotating tachometer and which also receives the switch signal of the switch device or the set-up signal and has the functional mode of integrating the memory signal and it outputs the driving RGB illumination device set;

A an RGB illumination device set coupled to said which is settled on the proper position inside the meter body and receives the driving signal input by the electric-control loop and receiving therefrom a driving signal generated thereat;

~~By means of the corresponding value of the rotating speed and the color light source preset in the memory output by the microprocessor and utilizing the electric control loop to synchronize light mixing to drive the RGB illumination device so when~~ wherein, once the rotational rotating speed reaches said at least one predetermined value of the engine rotational speed, the set-up segment, the projection said light source device

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~~with various~~ changes the color of the generated light in accordance with said correspondence data recorded in said memory device ~~could be changed according to the setting.~~

2. (Canceled)

3. (Currently Amended) The tachometer device as ~~mentioned~~ claimed in claim 1, wherein ~~the interval value of said rotational speed segment and said respective color could be settled according to the requirement of~~ are determined by the a user.

4. (Currently Amended) The tachometer device as ~~mentioned~~ claimed in claim 1, wherein said color light source device ~~provided for setting at least comprises the color such as~~ generates the light of a plurality of colors, including red, green, blue, yellow, indigo-blue, purple, and white colors.

5. (Currently Amended) The tachometer device as ~~mentioned~~ claimed in claim 1, wherein ~~the functional mode of said integrating memory signal memorize all the default value after the user sets up the color light source in correspondence with each rotating speed segment, so~~ said at least one predetermined value of the rotational speed of the engine as well as said data reflecting correspondence between a rotational speed segment and a respective color do not need to be re-set when the rotating tachometer is being re-set or re-initiated, ~~said corresponding color will never requires re-selected.~~

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6. (Currently Amended) The tachometer device as ~~mentioned~~ claimed in claim 1, ~~wherein there settles a functional~~ further including a meter body, a functional selection operation panel covering said meter body of on said tachometer device, and there settles ~~the a display lamp, as well as and~~ a plurality of press button for control press-buttons on ~~said functional selection operational panel, the a user could set up~~ sets up said the speed segment segments and the corresponding ~~color~~ colors directly by utilizing the press ~~button~~ buttons.

7. (Canceled)